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## What is Claimed is:

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- An electrically conducting carbon composite comprising a reducible organo-metallic complex dispersed or dissolved in a binder.
- 2. The electrically conducting carbon composite of claim 1 wherein the reducible organo-metallic complex comprises zinc, nickel, copper, silver, molybdenum, platinum or palladium.
- 10 3. The electrically conducting carbon composite of claim 1 wherein the reducible organo-metallic complex comprises molybdenum.
  - 4. A method for producing an electrically conducting carbon composite comprising dispersing or dissolving a reducible organo-metallic complex in a binder and metallizing exterior surfaces of the binder.
  - 5. The method of claim 4 wherein the reducible organometallic complex comprises zinc, nickel, copper, silver, molybdenum, platinum or palladium.
- 20 6. The method of claim 4 wherein the reducible organometallic complex comprises molybdenum.
  - 7. A fuel cell separator comprising the carbon composite of claim 1.